## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 28 July 2005 (28.07.2005)

PCT

## (10) International Publication Number WO 2005/069187 A2

(51) International Patent Classification7:

G06F 19/00

(21) International Application Number:

PCT/EP2005/000090

(22) International Filing Date: 7 January 2005 (07.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 04000170.3

7 January 2004 (07.01.2004) EP

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TI, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) TITLE: METHODS AND SYSTEM FOR THE IDENTIFICATION AND CHARACTERIZATION OF PEPTIDES AND THEIR FUNCTIONAL RELATIONSHIPS BY USE OF MEASURES OF CORRELATION

(57) Abstract: The invention provides methods and a system implementing these methods for identifying and characterizing peptides and their functional relationships by use of measures of correlation. These methods are based on the interaction of a Correlation Associated Network Module with several Application Modules including a Sequence Network Module, a Differential Network Module, a Marker Panel Network Module and a Surrogate Network Module allowing e.g. the provision of a representative overview of the peptide content of biological samples, the prediction of peptide sequences, the identification of peptides suitable to be used as marker panels and the identification of peptides suitable as surrogates for a known peptide.



